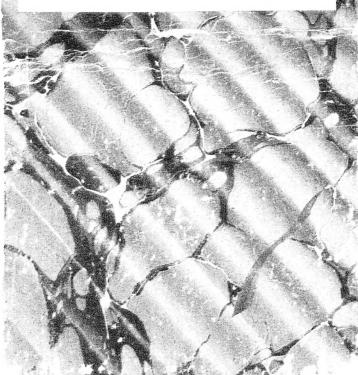


ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1387 to 1390



TEMPERATURE AND DENSITY.

1 2 87
Station No.
Date, 4 Jan 1889
Time of day (300m'; of tide, Ehr
Locality, Off Cape Frear
Exact position, 33° 48 19
78 64.45
Depth b factions
Nature of bottom, gray sand + grand Dredging instrument used, dudge
Dredging instrument used, Orldge
Direction of drift, Sw. Lw; distance.
Temperature of air, 54° therm. No.545.
of surface water, \$ 0.5 53 C 5
· at depth of fathoms. ·
" at bottom, "
Density at surface (224, 5 temp., >6.5
" at depth of fathoms, "
" at bottom.
Number of salinometer, 5249
Barometer reading. 36.29
State of sky Clear
Direction of wind, WE; force, Wtderate
Rain,
Direction of surface current, Shale : force,
- if - of bottom if - form
Name of vessel. I what Mauk!
Service to which attached, W.S.F.C.
Name and rank of commanding officer.
Retout blace Sient U.S.N.
Name and position of observer, CNSS. adams W

NOTES RELATING TO STATION NO.

Wredge fouled and lost,
according it instructions no
bottom density and templeatine
were taken, sounding apparatus
and being in pasition.

TEMPERATURE AND DENSITY.

Station No. 1387
Date, 124 Jan
Time of day, 1 Dill c of tide, Chib
Locality, off Cape Freak
Exact position, 33 - 44 - 12
7. 6. 4.
Depth, b. 5 fathous
Nature of bottom, Coval
Dredging instrument used. dudge
Direction of drift, Stulk ; distance.
Temperature of air, 54° therm. No.,5454
" of surface water, 5 2 " 573 6 5
at depth of fathoms,
" at hottom, "
Density at surface, \ \ \ 24.5 temp., 5 \ \ \
" at depth of fathoms, "
e at bottom, "
Number of salinometer, 5249
Barometer reading. 30.25
State of sky. Cla
Direction of wind, North; force. higher
Rain.
Direction of surface current. S W : force,
of bottom " : force,
Name of vessel, Sinh Hank"
Service to which attached, U.S.F.C.
Name and rank of commanding officer,

Name and position of observer CNS adams War

assistant U.S.F.C.

NOTES RELATING TO STATION NO.

Specimen of Coral Sponge
Sea Wreling, Small oyster shells
with spinge attached, a few
live oysters, driels, starfish
varing Ophiophair aculeats.

TEMPERATURE AND DENSITY,

Station No. 1 3 8
Date, 124 Jan
Time of day 245 Pen; of tide. Early flor
Locality, Off care from
Exact position, 33 43
78 24 14
Depth. 8 failures
Nature of bottom, C was
Dredging instrument used, Oudga
Direction of drift, 3W ; distance,
Temperature of air, 5-4 therm. No.,54
of surface water, 52 53
·· at depth of fathoms, ··
" at bottom,
Density at surface, 23.5 temp., 52
" at depth of fathoms,
" at bottom. "
Number of salinometer, 5249
Barometer reading. 3024
State of sky Clear
Direction of wind, W ; force, light
Rain,
Direction of surface current, : force,
of bottom " : force,
Name of vessel. Dish of Sauli
Service to which attached, V.S.F.C

Name and position of observer, CNSS. adams Who

me and rank of commanding officer.

NOTES RELATING TO STATION NO.

Three satar field, sand and gravel.

TEMPERATURE AND DENSITY.

Station No. 18 87
Date, 12 Jan 89
Time of day, Broke, of tide, Flood
Locality, My Cape atau
Exact position,
1 E 1 4 4 1 " "
Depth, Jackous
Nature of bottom, Rock
Dredging instrument used.
Direction of drift, S. W. ; distance,
Temperature of air, 53 therm. No.545
of surface water, 52 536
" at depth of fathoms. "
" at hottom,
Density at surface, 1024 temp., 52
" at depth of fathoms, "
" at bettom, "
Number of salinometer, 5279
Barometer reading. 30.24
State of sky. Cla
Direction of wind, W; force. light
Rain,
Direction of surface current, ; force,
of bottom " ; force,
Name of vessel, I want the survey
Service to which attached, \mathcal{U} . \mathcal{F} . \mathcal{T} .
ome and rank of commanding officer.
1.8.11 that Time U.S.M.
Name and position of observer Child. adams. Who

Springe Coral Lea Weeling

TEMPERATURE AND DENSITY.

Station No. 13 Station
Date, Feb 19 1992
Time of day, 7,50 HM; of tide. Flore
Locality, or factor Galores . Hill de
Exact position, Thomas Child N. SW 1/4 W. L
Blook Ph St. W. St. W. Sty mile
Depth. 17 factor
Nature of bottom, Mudo.
Dredging instrument used, 7) ce est to free for
Direction of drift, N.W.; distance, & mile
Temperature of air, 38 therm. No.,
of surface water,
at depth of fathoms.
at hortom,
Density at surface. temples.
" at depth of fathous. "
" ht hottom. "
Number of salinometer,
Barometer reading, 30, 32
State of sky. Claudy
Direction of wind, Calm; force, O
Rain, Kary
Direction of surface current, : force,
" of bottom " : force,
Name of vessel, Fish Hawk
Service to which attached, 2 670
Nay andrank of commanding officer, R Plats
of 8152
Name and position of observer, CAlles yelman

NOTES RELATING TO STATION NO. 1888

Obtained a fear law Perch
and a quantity of dead Spek
fish and description fruid
also about a feak offeral.

ashes Heindere

643

Chicapeaker Bay

TEMPERATURE AND DENSITY.

Station No. 1389	
Date, Feb 19" 1892	•
Time of day, 91/6 all of tide.	Herri
Locality, Off Kent Vsla	ul
Exact position. Jan C. H.	1 st Miller
Policely PhSINO N.EXN 3 N 1.	i miles
Depth. 15 faith	
Nature of bottom, Muci	^
Dredging instrument used.	con Jana
Direction of drift, ; distance	e. 🚣 /1500
Temperature of air. 47	therm. No.,
of surface water, &	
· at depth of fathoms.	
· at bottom,	• •
Density at surface,	temp.,
" at depth of fathoms,	· ·
· at hottom.	
Number of salimometer.	
Barometer reading. 80 30	
State of sky. Cloudy	
Direction of wind, of G ; force,	2
Hain, Hazy	
Direction of surface current, :	force,
R. A	force,
Name of vessel, Such Rack	
Service to which attached, & S	
Name and rank of commanding officer.	Medical
Seent be for a li	a
Name and position of observer.	lundam

Ablance a fire Line Packs and a questile of dead of the Victory of dead 645 Cheer per to Bay

RECORD OF DREDGING. /

TEMPERATURE AND DENSITY.

Station No. 1390
Date, Feb 19" 1892
Time of day. 12,50 Phof tide. Est
Locality. Off Core Posset
Exact position, Com Ph SL NO W4 5
2 to will a way
Depth. 16 factions
Nature of bottom, Much
Dredging instrument used. 7 ft B Trace
Direction of drift, W. NW; distance, 4 inch
Temperature of air. 40 therm. No.,
·· of surface water, 36
· at depth of fathoms. ·
" at bottom, 38
Density at surface, 10,06, temp., 58
" at depth of fathoms, "
" at bottom, /0, /3, " 38
Number of salinometer, _704? . Bot Tempon
Barometer reading. 35,24
State of sky. Claudy
Direction of wind, & & ; force, U
Rom. Harry
Direction of surface current, ; force,
" of bottom "; force,
Name of vessel. Fish hank
Service to which attached, & 570
Name and rank of commanding officer,
Charles and
Name and position of observer, CARSIA Pale

botames a for line of the second and a question of the second of the sec

TEMPERATURE AND DENSITY.

Station No.
Date,
Time of day. : of tide.
Locality,
Exact position,
Depth,
Nature of bottom,
Dredging instrument used,
Direction of drift, ; distance,
Temperature of air, therm, No.,
of surface water,
" at depth of fathoms, "
" at bottom, "
Density at surface, temp.,
" at depth of fathoms, "
" at bottom, "
Number of salinometer,
Barometer reading.
State of sky,
Direction of wind, ; force,
Rain.
Direction of surface current, : force,
" of bottom "; force,
Name of vessel,
Service to which attached,

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, : of	tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
·· of surface water,	••
· at depth of fatho	ms. ·
" at hottom,	••
Density at surface,	temp.,
" at depth of fathoms,	
at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding off	icer,

TEMPERATURE AND DENSITY.

Station No.			
Date,			
Time of day. : e	of tide.		
Locality,			
Exact position,			
Depth,			
Nature of bottom.			
Dredging instrument used.			
Direction of drift,	; distance.		
Temperature of air.	therm. No		
· of surface water,			
· at depth of fath	ioms,		
at hottom.			
Density at surface.	remp.,		
" at depth of fathoms,			
" at bottom,			
Number of salinometer,			
Barometer reading.			
State of sky.			
Direction of wind,	; force,		
Rain.			
Direction of surface current.	; force,		
44 of bottom 44	: force,		
Name of vessel,			
ervice to which attached,			

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No. Date, Time of day. : of tide. Locality. Exact position. Depth, Nature of bottom. Dredging instrument used, Direction of drift, ; distance, therm. No., Temperature of air. of surface water, at depth of fathoms. at Eottom. Density at surface, temp.. " at depth of fathoms, " at bottom. Number of salinometer. Barometer reading. State of sky. Direction of wind. ; force, Rain. Direction of surface current, : force. of bottom : force. Name of vessel, Service to which attached, Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.			
Date,			
Time of day,	: 0:	fitide.	
Locality,			
Exact position,			
Depth,			
Nature of bottom,			
Dredging instrumen	t used,		
Direction of drift,		; distance	
Temperature of air,			therm. No.,
· of surf	ace water.		
· at dept	h of fath	oms.	••
" at bott	Olli.		••
Density at surface,			temp.,
· at depth of	fathoms,		**
" at bottom,			
Number of salinome	ter.		
Barometer reading.			
State of sky,			
Direction of wind,		; force,	
Rain,			
Direction of surface	current.	; fo	orce,
" of bottom	6.6	; fe	orce,
Name of vessel,			
Service to which att	ached,		
Name and rank of co	ommanding o	dicer.	

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument u	sed,
Direction of drift,	; distance.
Temperature of air,	therm. No.,
· of surface	water,
· at depth of	of fathoms,
44 at bottom	
Density at surface,	$ ext{temp.}_{\tau}$
" at depth of	fathoms,
" at bottom,	
Number of salinometer	***
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface cu	rrent, ; force,
" of bottom	; force,
Name of vessel,	
Service to which attacl	hed,
Name and rank of com	manding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : o	fide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
of surface water,	••
· at depth of fath	onis. "
at bottom,	••
Density at surface,	temp.,
" at depth of fathoms,	••
" at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
of bottom	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding of	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. :	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
· of surface water,	
" at depth of fat	homs, "
at bottom.	
Density at surface,	temp.,
" at depth of fathoms	
· at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain.	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
2 1 0	477

TEMPERATURE AND DENSITY.

Station No.		
Date,		
Time of day. : of tide.		
Locality,		
Exact position,		
Depth,		
Nature of bottom,		
Dredging instrument used,		
Direction of drift, ; distance,		
Temperature of air, therm, No		
·· of surface water,		
" at depth of fathoms, "		
" at bottom, "		
Density at surface. temp.,		
" at depth of fathoms, "		
· at bottom.		
Number of salinometer,		
Barometer reading.		
State of sky,		
Direction of wind, ; force,		
Rain,		
Direction of surface current, ; force,		
of bottom "; force,		
Name of vessel,		
Service to which attached,		
Name and rank of commanding officer,		

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : o	f tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air,	therm. No.,
· of surface water,	
· at depth of fath	oms
at liottem,	**
Density at surface.	temp.,
" at depth of fathoms,	••
" at bottom,	••
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding of	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
· of surface water,	
" at depth of fat	homs
· at bottom.	
Density at surface,	temp.,
" at depth of fathoms	·· · · · · · · · · · · · · · · · · · ·
" at bottom.	
Number of salinometer.	
Barometer reading.	
State of sky.	
Direction of wind,	; force.
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : c	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
·· of surface water,	
·· at depth of fath	homs
" at bottom,	
Density at surface,	temp.,
" at depth of fathoms	
· at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
44 of bottom 44	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : of	itide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
· of surface water,	
· at depth of father	oms
· at leottom,	
Density at surface.	temp.,
" at depth of fathoms,	
" at bottom.	••
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding o	flicer.

TEMPERATURE AND DENSITY.

Station No.
Date,
Time of day, : of tide.
Locality,
Exact position,
Depth,
Nature of bottom,
Dredging instrument used,
Direction of drift, ; distance,
Temperature of air. therm. No., $% \left(\frac{1}{2}\right) =\left(\frac{1}{2}\right) \left(\frac{1}$
·· of surface water,
· at depth of fathoms. ·
" at bottom, "
Density at surface, temp.,
" at depth of fathoms, "
" at bottom, "
Number of salinometer,
Barometer reading.
State of sky,
Direction of wind, ; force,
Rain,
Direction of surface current, ; force,
of bottom "; force,
Name of vessel,
Service to which attached,
Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air,	therm. No
of surface water,	
e at depth of fa	thoms,
at bottom,	
Density at surface,	temp.,
" at depth of fathon	ns,
# at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	g officer,

Station No.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Date,			
Time of da	y,	: of tide,	
Locality,			
Exact posi	tion,		
Depth,			
Nature of 4	bottom,		
Dredging i	nstrument used,		
Direction o	of drift,	; distance	
Temperatu	re of air,		therm. No
**	of surface water	;	
**	at depth of	fathoms,	**
4.5	at bottom,		••
Density at	surface,		temp.,
" at	depth of fatho	oms,	••
-i at	bottom.		**
Number of	salinometer,		
Barometer	reading.		
State of sk	y.		
Direction o	of wind,	; force,	
Rain,			
Direction o	of surface current,	; fc	orce,
44 0	of bottom "	; fo	orce,
Name of ve	essel,		
Service to	which attached,		
Name and	rank of commandi	ng officer,	

TEMPERATURE AND DENSITY.

Station No. Date. Time of day. : of tide, Locality. Exact position. Depth. Nature of bottom. Dredging instrument used, Direction of drift. : distance. therm. No., Temperature of air. of surface water. at depth of fathoms. 11 at bottom. Density at surface. temp., " at depth of fathoms, at bottom. Number of salinometer. Barometer reading. State of sky. Direction of wind, ; force, Rain. Direction of surface current, : force, " of bottom : force. Name of vessel. Service to which attached, Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : of	ť tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No
· of surface water,	
· at depth of fath	oms,
" at bottom,	
Density at surface.	remp.,
" at depth of fathoms,	
" at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain.	
Direction of surface current,	; force,
·· of bottom ··	; force,
Name of vessel,	
Service to which attached,	
T 1 C	43.5

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	of tide,
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
of surface wate	τ,
· at depth of	fathous. "
er at bottom,	
Density at surface,	temp.,
" at depth of fathe	oms,
· at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, :	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air.	therm. No.,
of surface water,	
·· at depth of fat	thoms.
et at bottom,	
Density at surface,	temp.,
" at depth of fathom	s,
· at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	: force,
of bottom	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air.	therm. No.,
of surface water	
· at depth of	fathoms. "
at bottom,	
Density at surface,	temp.,
" at depth of fathe	oms,
at bottom,	
Number of salinometer.	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Verse and made of commandi	

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance.
Temperature of air,	therm. No.,
" of surface water,	
· at depth of fa	thoms
" at bottom,	
Density at surface.	temp.,
" at depth of fathor	ns, · · ·
" at bottom.	**
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	g officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, :	of tide,
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air.	therm. No.,
· of surface water,	
" at depth of fat	homs
# at bottom,	••
Density at surface,	temp.,
" at depth of fathom	s, · · ·
44 at bottom.	••
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current.	; force,
44 of bottom 44	; force,
Name of vessel,	
Service to which attached,	

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station Mo.	
Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
of surface water	y
er at depth of f	athoms
· at bottom,	
Density at surface,	temp.,
" at depth of fatho	ms, ··
" at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	: force,
" of bottom "	: force,
Name of vessel,	
Service to which attached.	
Name and rank of commandir	ng officer.

TEMPERATURE AND DENSITY.

Station 100,	
Date,	
Time of day. : e	of tide,
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
of surface water,	
· at depth of fat	homs
at bottom,	
Density at surface,	temp.,
· at depth of fathoms	••
· at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	: force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, :	of tide,
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air,	therm. No.,
· of surface water,	**
·· at depth of fat	homs
at bottom.	
Density at surface,	temp.,
" at depth of fathom	s,
4 at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	: force.
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer.

TEMPERATURE AND DENSITY.

Station No.		
Date,		
Time of day.	: of tide.	
Locality,		
Exact position,		
Depth,		
Nature of bottom,		
Dredging instrument used.		
Direction of drift,	; distance,	
Temperature of air,	therm. No	
· of surface wat	er,	
· at depth of	fathoms. "	
at bottom,		
Density at surface,	temp.,	
" at depth of fatl	aoms,	
" at bottom.		
Number of salinometer,		
Barometer reading.		
State of sky,		
Direction of wind,	; force,	
Rain,		
Direction of surface curren	t, ; force,	
" of bottom "	; force,	
Name of vessel,		
Service to which attached,		
Name and rank of commanding officer,		

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : c	of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
of surface water,	
·· at depth of fath	ions
4 at bottom,	
Density at surface,	temp.,
" at depth of fathoms	,
" at bottom.	
Number of salinometer.	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding	officer.

Station No.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used	l.
Direction of drift,	; distance,
Temperature of air,	therm. No.
· of surface w	ater, ·
" at depth of	fathoms. "
- at bottom,	
Density at surface.	temp.,
" at depth of fa	rthoms,
" at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface curre	ent, ; force,
of bottom	: force,
Name of vessel,	
Service to which attached	1,
Name and rank of comma	nding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	: of tide,
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
· of surface wate	r,
· at depth of	fathoms. "
at bottom,	
Density at surface,	temp.,
" at depth of fath	oms,
-4 at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commandi	ng officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air.	therm. No.,
· of surface water	er,
· at depth of	fathoms
er at bottom,	
Density at surface,	temp.,
" at depth of fath	oms,
" at bottom,	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current	; force,
44 of bottom 44	: force,
Name of vessel,	
Service to which attached,	
Name and rank of command	ing officer.

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, : of	itide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
of surface water,	
· at depth of fath	oms, ·
at bottom,	
Density at surface,	temp.,
" at depth of fathoms,	••
" at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	: force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Y	131 6 6 7 1

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, : o	f tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
·· of surface water,	**
· at depth of fath	onis, ·
at l:ottom,	
Density at surface,	temp.,
" at depth of fathoms,	
" at bottom.	.,
Number of salinometer.	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : of	tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance,
Temperature of air,	therm, No
·· of surface water,	••
·· at depth of fathe	oms. "
at bottom.	••
Density at surface,	temp.,
" at depth of fathoms,	••
" at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
44 of bottom 44	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding a	fficer.

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance.
Temperature of air,	therm, No
· of surface wat	er,
· at depth of	fathoms.
at bottom,	
Density at surface.	temp.,
" at depth of fat	homs,
44 at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface curren	t, : force,
4 of bottom	: force,
Name of vessel,	
Service to which attached,	
Name and rank of command	ling officer.

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : 0	f tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom.	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air.	therm. No.,
· of surface water,	
" at depth of fath	oms
et at Eottom.	
Density at surface,	temp.,
" at depth of fathoms,	
·· at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding of	officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, : of tide,	
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift, ; dista	nce,
Temperature of air.	therm. No.,
·· of surface water,	**
· at depth of fathoms.	
at bottom,	••
Density at surface.	temp.,
" at depth of fathoms,	**
" at bottom.	••
Number of salinometer,	
Barometer reading.	
State of sky,	
Direction of wind, ; force	# #
Rain,	
Direction of surface current,	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding officer,	

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air,	therm. No.,
of surface water	
· at depth of	fathoms.
at bottom,	
Density at surface,	temp.,
4 at depth of fathe	oms,
44 at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain.	
Direction of surface current,	; force,
44 of bottom 44	; force,
Name of vessel,	
Service to which attached,	

Name and rank of commanding officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance.
Temperature of air,	therm. No.,
·· of surface wat	er,
· at depth of	fathoms
at bottom,	
Density at surface.	temp.,
" at depth of fath	ioms,
44 at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface curren	t, ; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of command	ling officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day.	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used,	
Direction of drift,	; distance,
Temperature of air,	therm, No.,
of surface water	,
" at depth of f	athoms
at bottom,	••
Density at surface,	temp.,
" at depth of fatho	ms, ···
· at bottom.	
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
North and souls of anymously	or officer

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day, : of	tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air,	therm, No
· of surface water,	**
" at depth of fathe	ems
" at bottom,	••
Density at surface.	temp.,
" at depth of fathoms,	••
44 at bottom.	••
Number of salinometer,	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	; force,
" of bottom "	: force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding of	flicer

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day,	: of tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance.
Temperature of air,	therm. No.,
·· of surface water	er, ·
· at depth of	fathoms
ar bortom,	••
Density at surface,	temp.,
** at depth of — fath	oms,
" at bottom.	
Number of salinometer.	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current	; force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of command	ing officer,

TEMPERATURE AND DENSITY.

Station No.	
Date,	
Time of day. : of	tide.
Locality,	
Exact position,	
Depth,	
Nature of bottom,	
Dredging instrument used.	
Direction of drift,	; distance,
Temperature of air.	therm. No.,
of surface water,	
" at depth of fathe	oms,
" at bottom,	
Density at surface.	temp.,
" at depth of fathoms,	
" at bottom.	
Number of salinometer.	
Barometer reading.	
State of sky.	
Direction of wind,	; force,
Rain,	
Direction of surface current,	: force,
" of bottom "	; force,
Name of vessel,	
Service to which attached,	
Name and rank of commanding o	fficer,

TEMPERATURE AND DENSITY.

Station No.		
Date,		
Time of day,	: of tide.	
Locality,		
Exact position,		
Depth,		
Nature of bottom,		
Dredging instrument used,		
Direction of drift,	; distance,	
Temperature of air,	therm. No.,	
· of surface wate	r,	
· at depth of	fathoms	
" at bottom,		
Density at surface.	temp.,	
" at depth of fath	oms,	
" at bottom.		
Number of salinometer.		
Barometer reading.		
State of sky,		
Direction of wind,	; force,	
Rain,		
Direction of surface current	; force,	
" of bottom "	; force,	
Name of vessel,		
Service to which attached,		
Name and rank of commanding officer,		